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City of Abbotsford
Former Kettle Pit, Abbotsford, BC

11-BH02MW

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Project No: FV11-0956-00

Depth (ft) (m)	Description	Symbol	Depth (m)	Sample		Well and Backfill Details	Headspace Vapour Concentration			Laboratory Analysis /Comments
				Number/ID	Type		▲ (ppm _v) ▲ 10 100 1000			
2	Grey SAND, some gravel, trace silt, damp, no odour. Crushed asphalt observed (FILL)			@0.9m	●		3			Sample not analyzed
4				@2.7m	●		1.4			Sample not analyzed
6				@3.8m	●		<<			Sample not analyzed
8	- Asphalt-like odour observed at 2.7m - gravelly and wet below 3.0m		4.6	@5.5m	●		<<			Chloride
10				@7.0m, 11-Dup1	●		<<			Chloride
12										
14										
16	Dense grey SILT, some clay, trace gravel, trace sand, damp, no odour									
18										
20	- some gravel and wet below 6.1m									
22										
24										
Bottom of hole at 7.60 meters										

Sample Symbols Grab Sample	Backfill Symbols Filter Sand Bentonite Solid Pipe Slotted Pipe Slough/Cuttings Concrete	Soil Symbols SAND SILT	Notes	Logged By Gail Schultze, B.Sc., BIT
				Drilled/ Excavated By Blue Max Drilling
				Date Drilled or Excavated 5/5/2011
				Elevation (grade)
				Water Level Recorded On
				Drill Method Solid Stem Auger
<small>This log is for environmental purposes only. This log is the sole property of Levelton Consultants Ltd. and cannot be used or duplicated in anyway without express written permission.</small>				

HAZMAT FV11-0956 LOGS BH1-20_29-46.GPJ LEVELTON DATA TEMPLATE.GDT 2/28/13



applied. Soil type for 11-BH36MW@16.0m and 11-BH31MW@16.4m were defined as “sandy silt, trace clay” in the particle size analysis reports. The reports are presented as an attachment.

The results of the slug test analysis appear to be consistent with the borehole logs. The results indicate that the calculated geometric mean values of the hydraulic conductivities using the Hvorslev Method are within the range of 2.35×10^{-3} m/s to 7.76×10^{-8} m/s.

Results of Falling Head Tests conducted at the Site

Well ID	Geometric Mean of Hydraulic Conductivity (K) (m/s) (Hvorslev Method)	Soil type at the screened interval
11-BH01MW	4.91×10^{-6}	Grey, silty medium SAND, trace gravel
11-BH02MWD	1.74×10^{-7}	Dense, grey, SILT, some clay, trace gravel, trace sand
11-BH06MW	2.35×10^{-3}	Grey, coarse SAND and GRAVEL, trace silt
11-BH31MWD	3.17×10^{-7}	Grey stiff clayey SILT, trace gravel, trace fine sand
11-BH36MWD	7.76×10^{-8}	Grey very stiff SILT, trace fine sand, trace clay -less stiff below 13.4m
11-BH26MW	1.27×10^{-6}	Soft grey SAND – with some silt, trace gravel, trace cobbles

Attachments:

- Borehole logs of monitoring wells MW10-01, MW10-04, 11-BH01MW, 11-BH02MWD, 11-BH06MW, 11-BH31MWD, 11-BH36MWD, 11-BH26MW
- Slug Test Analysis Reports from Aquifer Test Pro
- Table 2.2. Range of Values of Hydraulic Conductivity and Permeability, Groundwater, 1979. R. Allen Freeze and John A. Cherry. Prentice-Hall Inc., New Jersey USA.
- Particle Size Analysis Reports of 11-BH31MW@16.4m and 11-BH36MW@16.0m